



Moisture Monitoring System Sensor Installation Instructions

- 1) Installation of Gateway – Install your gateway using the instructions provided in the gateway user manual. Note that the gateway(s) do(does) NOT need to be installed or active prior to installing sensors although it is strongly recommended as it will allow you to immediately confirm sensors are functional during the sensor installation process.
- 2) Installation of the Sensors
 - a. Sensors have a battery installed and are ready to use. You do not need to remove the battery when the sensor is not in use although nothing will be harmed if the battery is removed. Sensors keep all important information in non-volatile (i.e. requires no power) memory. Expected battery life is 15-45 years when a 1 hour logging period is configured and operating at 25°C.
 - b. Sensors can be located up to 100 meters from the Gateway but bear in mind wireless communication is hard to predict so for best results locate the Gateway and Sensors as close to each other as possible.
 - c. **Sensors are shipped from the factory with the antenna folded over – you MUST straighten the antenna for best wireless performance.** For best wireless performance position the sensor's antenna such that it is perpendicular to the earth. The antenna is allowed to be bent to accommodate installation in small spaces but make the bend about ½" away from where the antenna enters the sensor enclosure.
 - d. Sensors can either be screwed to a surface or not; they will function fine either way. When screwed to a surface the screws act as the pins of a pin-type moisture meter. Screws can be purchased from us or you can choose screws that suite your application. **YOU MUST USE STAINLESS STEEL SCREWS AND SPLIT WASHERS. Use of other metals for mounting hardware can cause faulty readings. DO NOT ELECTRICALLY SHORT THE TWO SCREWS OR THE BATTERY LIFE WILL BE SHORTENED.**
 - e. By default a system is configured to use a common network address for all gateways and sensors. What this means is that you can use any sensor with any gateway. Sensors are automatically linked to a Gateway ID and Gateway ID's are manually linked to a Job Site.



- f. **It is important that when you install a sensor you keep a log documenting where the sensor is installed. You'll need that information later when, for example, Sensor ID [0A2E0003](#) reports high humidity and you want to know where that sensor is installed. The Sensor ID can be found on the bottom of the sensor's barcode label or on the sensor's box. Two barcode labels are provided with the sensor for additional labeling such as on the window near where the sensor is installed or on a work order describing where the sensor is to be installed.**



3) System operation

- a. Once you have completed the steps above no further action is required on your part for the system to continuously monitor temperature, humidity and moisture content.
- b. Sensors are typically set to a 5 minute or 60 minute logging period depending on customer requirements.
- c. System parameters such as the sensor logging period can be remotely configured by OmniSense from the web site using the firmware upload feature.

4) Seeing your data

- a. Subscribers can view system data by logging in at https://www.omnisense.com/user_login.asp.
- b. Click on [Job Sites](#).
- c. Click on [Click on Sensors](#) for the site you are interested in.